

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DE 03/03180

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N15/57 C12N9/50 A61K38/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, BIOSIS, Sequence Search, WPI Data, PAJ, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL [Online] 18 September 2002 (2002-09-18), XP002287494 Database accession no. AY074514 abstract	1-5
X	WO 02/02775 A (BASF AG ; DEAR NEIL T (DE); BOEHM THOMAS (DE)) 10 January 2002 (2002-01-10) cited in the application abstract; claims 1-12 ----- -/--	1-6,8

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

8 July 2004

Date of mailing of the international search report

27 SEP 2004

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 6 and 8 relate to a method for treatment of the human or animal body, the search was carried out and was based on the stated effects of the compound or composition.
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See supplemental sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-9 All in part

Remark on Protest

☐
☐

- The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HUANG YUANHUI ET AL: "The calpain family and human disease" August 2001 (2001-08), TRENDS IN MOLECULAR MEDICINE, VOL. 7, NR. 8, PAGE(S) 355-362, XP002287493 ISSN: 1471-4914 cited in the application the whole document	1-5
X	PERRIN B J ET AL: "Calpain" INTERNATIONAL JOURNAL OF BIOCHEMISTRY AND CELL BIOLOGY, vol. 34, no. 7, July 2002 (2002-07), pages 722-725, XP002287492 ISSN: 1357-2725 the whole document	1-5
A	ESKE, KRISTIN: "Zahllose Geheimnisse der Natur warten noch unter Wasser" BIOLOG, no. 3, 2000, pages 1-7, XP002263051 GREIFSWALD, ROSTOCK cited in the application the whole document	
A	"Leben unter extremen Bedingungen"[Online] 31 January 2002 (2002-01-31), XP002287495 Retrieved from the Internet: URL: http://www.innovations-report.de/html/berichte/geowissenschaften/bericht-7421.html the whole document	
A	DATABASE EMBL [Online] 15 January 2001 (2001-01-15), XP002287496 Database accession no. AB028639 abstract	
X,P	DATABASE EMBL [Online] 22 July 2003 (2003-07-22), XP002287500 Database accession no. CF076121 abstract	1-5

INTERNATIONAL SEARCH REPORT

PCT/ISA/ 210

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PCT/DE03/03180

The International Searching Authority has determined that this international application contains multiple (groups of) inventions, namely:

1. Claims: 1-9 (all in part)

Nucleic acid SEQ ID NO:1 coding for the protease calpain from *Fragliarius cylindrus*, the encoded polypeptide, method for the production thereof and the use thereof in cleaning and therapy.

2. Claims: 1-9 (all in part)

See 1st invention, SEQ ID NO:2 coding for zinc metalloprotease.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DE 03/03180

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0202775	A	10-01-2002	DE 10031932 A1	10-01-2002
			AU 7060301 A	14-01-2002
			CA 2414592 A1	10-01-2002
			WO 0202775 A2	10-01-2002
			EP 1294895 A2	26-03-2003
			JP 2004503221 T	05-02-2004
			US 2004072174 A1	15-04-2004
